KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. Degree Programme 2012 & Previous Admission $\Pi^{\rm nd}$ Semester Re- Examination-July 2016

Jat. No: Stat 1201

Mark: 80.00

Time: 3 hrs

Tit I	Fill up the blanks/True or False	(10 x 1 =10)
	1. Coefficient of variation is a relative measure. (True/False) 2. Variance can be negative (True/False) 3. Correlation coefficient lies between -1 and +1 (True/False) 4. The upper limit of probability is (Infinity/Unity) 5. Mean is equal to mode in a Distribution (Binomial/ 6. Median divides the data arranged in ascending order into 7. According to Sturges' rule, the number of classes (k) is given by: k 8. Sum of absolute deviations is minimum when taken from 9. In case of open end classes, an appropriate measure of dispersion to 10. Probability of Type I error is called	equal parts.
п	Write short notes ANY TEN	$(10 \times 3 = 30)$
	 Distinguish between parameter and statistic. Write short note on power of a test. Write four properties of normal distribution. Give the multiplication theorem of probability. Distinguish between primary data and secondary data. Write short note on coefficient of variation. Distinguish between population and sample. Explain 'randomisation'. Poisson distribution. Histogram. Two stage sampling. Explain the application of 'F' test. Explain ANY SIX of the following Explain the concept of skewness. Draw the sketch of skewed free 	$(6 \times 5 = 30)$ equency distributions and
	show the positions of mean, median and mode. 2. Define Karl Pearson's coefficient of correlation. Enumerate the	properties of correlation
	coefficient. Explain stratified random sampling. Distinguish between (1) Diagrams and graphs. (2) Inclusive type and exclusive type classes. 3) Continuous and d	iscrete variables.
	5. Describe the procedure for test of significance for a single mean for	r large samples.
	6. Explain the procedure for determining median for a frequency dist	ribution.
	7. Explain paired 't' test.	
	8. Briefly explain the uses and limitations of statistics	
I	IV. Write essay on ANY ONE	(1 x 10=10)
	 What are the properties to be satisfied by a good measure of co the different measures of central tendency and give the situations 	entral tendency? Explain under which each can be

2. Write an essay on regression analysis. Give any five differences between correlation and

regression analysis.